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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/025,179	HIRAI ET AL.
Office Action Summary	Examiner	Art Unit
TI BEAU IND DATE COLL	Con P. Tran	2644
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1)	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
 4) ☐ Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 and 18-21 is/are rejected. 7) ☐ Claim(s) 17 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the correction Replacement drawing sheet(s) including the correction	epted or b) objected to by the larawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
11) The oath or declaration is objected to by the Ex		• •
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. S have been received in Application S have been received in Application S have been received S (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	· ·



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DETAILED ACTION

Priority

Acknowledgment is made of applicants' claim for foreign priority under 35
 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. JAPAN 2000-390381, filed on December 22, 2000.

'Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 3, and 4-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Momii et al. U.S. Patent 6,052,665 (hereinafter, "Momii").

Regarding **claim 1**, Momii teaches a picked-up-sound reproducing method for picking up a sound present in a first sound field and reproducing the picked-up sound in a second sound field (see Figs. 1, 2, 3 and respective portions of the specification), the picked-up-sound reproducing method comprising:



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a step of detecting a sound pressure present in the first sound field (speech level detection 101 of detection/conversion 91, Fig. 8; col. 8, lines 29-37 detecting a sound pressure picked up by the first microphone 1, Fig. 3; TV Conferencer A, Fig. 7; i.e., -15dB); and a sound pressure reproduced in the second sound field (speech level detection 101 of detection/conversion 92, Fig. 8; col. 8, lines 29-37 detecting a sound pressure with which the sound picked up by the first microphone and reproduced by the speaker is picked up by the second microphone 25, Fig. 3; TV Conferencer B, Fig. 7; i.e., -10dB); and

a step of adjusting a sound pressure to be reproduced in the second sound field so that the sound pressure present in the first sound field and the sound pressure to be reproduced in the second sound field (detection/conversion 92, Fig. 8; col. 8, lines 29-37 adjusting a sound pressure to be reproduced by the second-sound-field speaker 26, Terminal B, Figs. 3, 8) assume a predetermined relationship (to equalize transmission level of one terminal A and the other terminal B, Fig. 3; col. 4, lines 1-13; col. 9, lines 1-4; i.e., +5dB).

Regarding **claim 3**, Momii teaches a picked-up-sound reproducing method for picking up a sound present in a first sound field (Terminal A, Fig. 3) to reproduce the picked-up sound in a second sound field (Terminal B, Figs. 3) and picking up a sound present in the second sound field to reproduce the picked-up sound in the first sound field (see Figs. 1, 2, 3 and respective portions of the specification), the picked-up-sound reproducing method comprising:

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a step of detecting a sound pressure present in the first sound field and a sound pressure reproduced in the second sound field (speech level detection 101 of detection/conversion 91, Fig. 8; col. 8, lines 29-37 detecting a sound pressure picked up by the first microphone 1, Fig. 3; TV Conferencer A, Fig. 7; i.e., -15dB), and adjusting a sound pressure to be reproduced in the second sound field so that the sound pressure present in the first sound field and the sound pressure to be reproduced in the second sound field (detection/conversion 92, Fig. 8; col. 8, lines 29-37 adjusting a sound pressure to be reproduced by the second-sound-field speaker 26, Terminal B, Figs. 3, 8) assume a predetermined relationship (to equalize transmission level of one terminal A and the other terminal B, Fig. 3; col. 4, lines 1-13; col. 9, lines 1-4; i.e., +5dB).;

a step of detecting a sound pressure present in the second sound field and a sound pressure reproduced in the first sound field (detection/conversion 92, Fig. 8; col. 8, lines 29-37 adjusting a sound pressure to be reproduced by the second-sound-field speaker 26, Terminal B, Figs. 3, 8), and adjusting a sound pressure to be reproduced in the first sound field so that the sound pressure present in the second sound field and the sound pressure to be reproduced in the first sound field (detection/conversion 91 Fig. 8; col. 8, lines 29-37 adjusting a sound pressure to be reproduced by the first-sound-field speaker 4) assume a predetermined relationship (to equalize transmission level of one terminal A and the other terminal B, Fig. 3; col. 4, lines 1-13; col. 9 lines 53-61; i.e., 0dB).

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Regarding **claim 4**, this claim is essentially similar to Claim 3. Claim 4 therefore is interpreted and rejected for the same reasons of Claim 3. It should be noted that the preamble recitation of "a position of one wall surface" is given no weight since no further mention of such is made in the body of the claim.

Regarding claim 5, Momii teaches a picked-up-sound reproducing method as claimed in claim 3 wherein adjustment of the sound pressure to be reproduced in the first sound field and adjustment the sound pressure to be reproduced in the second sound field is performed with a time difference therebetween (predetermined period time t), and wherein when the sound pressure to be reproduced in the first sound field is to be adjusted, operations for picking up a sound present in the first sound field to reproduce the picked-up sound in the second sound field are stopped (the reception level detecting portion 22 measures an average signal peak value of the tone signal received by the speech CODEC 2a during a predetermined period of time t, Figs. 5 and 6; col. 7, lines 18-33; then calculated the difference for adjustment), and when the sound pressure to be reproduced in the second sound field is to be adjusted, operations for picking up a sound present in the second sound field to reproduce the picked-up sound in the first sound field are stopped (the reception level detecting portion 22 measures an average signal peak value of the tone signal received by the speech CODEC 2a during a predetermined period of time t, Figs. 5 and 6; col. 7, lines 18-33; then calculated the difference for adjustment).

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2, 6, 11-13, and 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Momii et al. U.S. Patent 6,052,665 (hereinafter, "Momii") in view of Murphy U.S. Patent 5,921,036.

Regarding **claim 6**, Momii teaches a picked-up-sound reproducing apparatus (see Figs. 1, 2, 3, and respective portions of the specification) comprising:

a first microphone (1) that is provided in first sound field to pick up a sound present in the first sound field (terminal A, Fig. 3; col. 5, lines 15-33; col. 6, lines 6-14; ;

a signal transfer pathway (from terminal A Fig. 3 to network 6, Fig. 2) that transmits the sound, picked up by the first microphone (1), to a second sound field (terminal B, 23, Fig. 3, col. 5, lines 42-47);

a speaker (26, Fig. 3) that is provided in a second sound field to reproduce the sound transmitted via the signal transfer pathway (col. 5, lines 42-51);

a second microphone (25, Fig. 3) that is provided in the second sound field to pick up the sound reproduced by the speaker (col. 5, lines 42-51);

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a first detection section (electronic switch, col. 5, lines 15-25) that detects a sound pressure picked up by the first microphone (1a,col. 4, line 65 – col. 5, line 12);

a second detection section (22, Figs. 3, 5, 6, col. 6, lines 6-14) that detects a sound pressure with which the sound picked up by the first microphone and reproduced by the speaker is picked up by the second microphone (second detection circuit 22 detects signal from other entity terminal 23; sound from speaker and input speech, col. 6, lines 6-14); and

an adjustment section (electronic volume 3, Figs. 2, 3; col. 4, lines 31-35) that adjusts a sound pressure to be reproduced by the speaker (26) in such a manner that the sound pressures detected by the first detection section and the second detection section assume a predetermined relationship (to equalize transmission level of one terminal 7 and the other terminal 10, Fig. 2; col. 4, lines 1-13; col. 4, line 65 – col. 5, line 12).

However, Momii does not explicitly disclose a speaker and a microphone are provided at a position of one a wall surface of a sound field. Murphy teaches a two-way communication means (col. 2, lines 60-61) including combination speaker/microphone unit (76, Fig. 2) that is installed on wall 12A (col. 6, lines 32-41).

It would have been obvious to one of ordinary skill in the art of communication at the time the invention was made to incorporate a teaching communication means of Murphy to communication system of Momii for purpose of providing two-way communication as suggested by Murphy in column 6, lines 31-35.

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Regarding **claim 2**, this claim merely reflects the method to the apparatus claim of claim 6 and is therefore rejected for the same reasons.

Regarding claim 11, Momii in view of Murphy teaches picked-up-sound reproducing apparatus as claimed in claim 6. Momii further teaches wherein the speaker and the second microphone to be combined with the speaker are together incorporated in a speaker box in substantially parallel to each other (speaker/microphone units of Murphy are mounted on wall 12A; Fig. 2, col. 6, lines 32-39). The speaker/microphone units may be horizontally spaced about two feet to ten feet apart, depending upon the microphone sensitivity (col. 7, lines 27-33).

However, Momii in view of Murphy does not explicitly disclose speaker/microphone units are side-by-side adjoining relation to each other.

It would have been obvious to one of ordinary skill in the art of communication at the time the invention was made to reduce the spacing between speaker/microphone units to side-by-side adjoining each other in according to microphone sensitivity in order to confirm food ordering, to reduce the chance for errors, as suggested by Murphy in column 7, lines 17-19.

Regarding **claim 12**, Momii in view of Murphy teaches picked-up-sound reproducing apparatus as claimed in claim 6. Momii further teaches wherein the sound picked up by the first microphone is transmitted, with a gain of 1, to the second sound field via the signal transfer pathway, and the first detection section detects a sound

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pressure from a sound signal transmitted to the second sound field via the signal transfer pathway (through speech CODEC portion 2a without volume 3 adjustment; Fig. 3, col. 4, lines 36-52).

Regarding **claim 13**, Momii teaches a picked-up-sound reproducing apparatus (see Figs. 1, 2, 3, and respective portions of the specification) comprising:

a first microphone (1) that is provided in first sound field to pick up a sound present in the first sound field (terminal A, Fig. 3; col. 5, lines 15-33; col. 6, lines 6-14; ;

a first signal transfer pathway (from terminal A Fig. 3 to network 6, Fig. 2) that transmits the sound, picked up by the first microphone (1), to a second sound field (terminal B, 23, Fig. 3, col. 5, lines 42-47);

a second-sound-field speaker (26, Fig. 3) that is provided in a second sound field to reproduce the sound transmitted via the first signal transfer pathway (col. 5, lines 42-51);

a second microphone (25, Fig. 3) that is provided in the second sound field to pick up a sound present in the second sound field (col. 5, lines 42-51);

a second signal transfer pathway (from terminal B Fig. 3 to network 6, Fig. 2) that transmits the sound, picked up by the second microphone (25), to the first sound field (terminal B, 23, Fig. 3, col. 5, lines 42-47);

a first-sound-field speaker (4, Fig. 4) that is provided in the first sound field to reproduce the sound transmitted via the second signal transfer pathway (receiving, col. 6, lines 33-39);

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a first detection section (speech level detection 101 of detection/conversion 91, Fig. 8; col. 8, lines 29-37) that detects a sound pressure picked up by the first microphone (1, Fig. 3; TV Conferencer A, Fig. 7; i.e., -15dB);

a second detection section (speech level detection 101 of detection/conversion 92, Fig. 8; col. 8, lines 29-37) that detects a sound pressure with which the sound picked up by the first microphone and reproduced by the speaker is picked up by the second microphone (25, Fig. 3; TV Conferencer B, Fig. 7; i.e., -10dB); and

an first adjustment section (detection/conversion 92, Fig. 8; col. 8, lines 29-37) that adjusts a sound pressure to be reproduced by the second-sound-field speaker (26, Terminal B, Figs. 3, 8) in such a manner that the sound pressures detected by the first detection section and the second detection section assume a predetermined relationship (to equalize transmission level of one terminal A and the other terminal B, Fig. 3; col. 4, lines 1-13; col. 9, lines 1-4; i.e., +5dB).

a third detection section (speech level detection 101 of detection/conversion 92, Fig. 8; col. 8, lines 29-37) that detects a sound pressure present in the second sound field picked up by the second microphone (25, Fig. 3; TV Conferencer B, Fig. 7; i.e., -10dB);

a fourth detection section (speech level detection 101 of detection/conversion 91, Fig. 8; col. 8, lines 29-37) that detects a sound pressure with which the sound present in the second sound field picked up by the second microphone (25) and reproduced by the first-sound-field speaker (4) is picked up by the

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first microphone (1; fourth detection circuit 101 detects input signal from terminal A, Fig. 3; sound from speaker 4 and input speech at microphone 1, col. 6, lines 6-14; col. 8, lines 53-61; i.e., -15dB);

and a second adjustment section (detection/conversion 91 Fig. 8; col. 8, lines 29-37) that adjusts a sound pressure to be reproduced by the first-sound-field speaker (4) in such a manner that the sound pressures detected by the third detection section and the fourth detection section assume a predetermined relationship (to equalize transmission level of one terminal A and the other terminal B, Fig. 3; col. 4, lines 1-13; col. 9 lines 53-61; i.e., 0dB).

However, Momii does not explicitly disclose a speaker and a microphone are provided at a position of one a wall surface of a sound field. Murphy teaches a two-way communication means (col. 2, lines 60-61) including combination speaker/microphone unit (76, Fig. 2) that is installed on wall 12A (col. 6, lines 32-41).

It would have been obvious to one of ordinary skill in the art of communication at the time the invention was made to incorporate a teaching communication means of Murphy to communication system of Momii for purpose of providing two-way communication as suggested by Murphy in column 6, lines 31-35.

Regarding **claim 18**, this claim is essentially similar to Claim 11 and is rejected for the reasons stated above regarding that claim.

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Regarding **claim 19**, this claim is essentially similar to Claim 12 and is rejected for the reasons stated above regarding that claim.

6. Claims 7 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Momii et al. U.S. Patent 6,052,665 (hereinafter, "Momii") in view of Murphy U.S. Patent 5,921,036, and further in view of Flannagan et al. U.S. Patent 4,008,376.

Regarding **claim 7**, Momii in view of Murphy teaches picked-up-sound reproducing apparatus as claimed in claim 6. Momii further teaches wherein a plurality of the picked-up-sound reproducing apparatus (microphone 1 at terminal A, microphone 25 at terminal B, Fig. 3) are provided between the first sound field and the second sound field (terminal A, terminal B, Fig. 3) to provide a processing channel (for transmitting, receiving), and each processing channel includes the second microphone (25) and the speaker (26; col. 5, lines 42-58).

However, Momii in view of Murphy does not explicitly disclose a plurality processing channels; and wherein the second microphones and the speakers of individual ones of the processing channels in the second sound field are arranged in corresponding relation to arrangement of the first microphones of the individual processing channels in the first sound field.

Flannagan teaches a loudspeaking teleconferencing circuit having a plurality of processing channels: speaker phone sets S4-1 to S4-n; Fig. 6, location 604, (first sound field), speaker phone sets S6-1 to S6-n; Fig. 6, location 606, (second sound field); and

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wherein the second microphones and the speakers of individual ones of the processing channels in the second sound field are arranged in corresponding relation to arrangement of the first microphones of the individual processing channels in the first sound field (i.e., S6-1 - S6-n corresponding to S4-1 - S4-n; Fig. 6, col. 10, line 46 – col. 11, line 2).

It would have been obvious to one of ordinary skill in the art of communication at the time the invention was made to incorporate a teaching loudspeaking teleconferencing of Flannagan to a picked-up-sound reproducing apparatus of Momii in view Murphy of for purpose of reducing reverberation and noise pickup, as suggested by Flannagan in column 10, lines 17-18.

Regarding **claim 14**, this claim is essentially similar to Claim 7 and is rejected for the reasons stated above regarding that claim. It should be noted that each of microphone and speaker at location 604 and 606 are capable of being arranged in horizontal symmetrical relationship.

7. Claims 8-10, and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Momii et al. U.S. Patent 6,052,665 (hereinafter, "Momii") in view of Murphy U.S. Patent 5,921,036, in view of Flannagan et al. U.S. Patent 4,008,376, and further in view of Asayama U.S. Patent 5,784,467.

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Regarding **claim 8**, Momii in view of Murphy, in view of Flannagan teaches a picked-up-sound reproducing apparatus as claimed in claim 7 wherein the adjustment section adjusts the sound pressure to be reproduced by the speaker so that a value obtained by modifying the sound pressure (using electronic volume 3, Figs. 2, 3; col. 4, lines 31-35) detected by the first detection section (electronic switch, col. 5, lines 15-25) or the second detection section (22, Figs. 3, 5, 6, col. 6, lines 6-14).

However, Momii in view of Murphy in view of Flannagan does not explicitly disclose to determine the value by dividing an area of the one wall surface of the second sound field by a total number of the processing channels equals a value of the sound pressure detected by the second detection section or the first detection section.

Asayama teaches a method and apparatus for actually reproducing acoustic characteristics of sound waves in an existing real space (col. 2, lines 7-12) in which a wall surface is divided into a plurality of areas which are virtual windows; and, acoustic characteristics of the sound is determined at each of the virtual windows by using a loud speaker in position corresponding to the virtual window (col. 3, lines 19-38)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Asayama teaching of reproducing acoustic characteristics of sound waves to a picked-up-sound reproducing apparatus of Momii, Murphy, Flannagan in combination for purpose of providing sound waves radiating from the wave source form the direct sounds and the reflected sounds to reach the listener all possible directions, as suggested by Asayama in column 12, lines 47-51.

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Regarding **claim 9**, Momii in view of Murphy, in view of Flannagan teaches a picked-up-sound reproducing apparatus as claimed in claim 7. Momii in view of Murphy further teaches wherein the first microphones of the individual processing channels are arranged in the first sound field in a linear configuration, and the second microphones and speakers of the individual processing channels are arranged in the second sound field in a linear configuration (speaker/microphone units of Murphy are mounted on wall 12A; Fig. 2, col. 6, lines 32-39; see Momii terminal A, terminal B, Fig. 3). It should be noted that Murphy discloses a food preparer 72 may use headset 80 (instead of speaker/microphone of an intercom unit).

Regarding **claim 10**, Momii in view of Murphy, in view of Flannagan teaches a picked-up-sound reproducing apparatus as claimed in claim 7. Momii in view of Murphy further teaches wherein the first sound field and the second sound field (see Momii terminal A, terminal B, Fig. 3) are separated by a window in the form of a transparent plate member made of glass (see Murphy; transparent glass window, Fig. 2; col. 5, lines 17-23) and wherein the second microphones and speakers of the individual processing channels are arranged in the second sound field in a linear configuration along lower edges of the window, and the first microphones of the individual processing channels are arranged in the first sound field in a linear configuration along lower edges of the window (see Murphy; Fig. 2; col. 6, lines 32-39)

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Regarding **claim 15**, this claim is essentially similar to Claim 8 and is rejected for the reasons stated above regarding that claim.

Regarding claim 16, this claim is essentially similar to Claim 9 and is rejected for the reasons stated above regarding that claim.

8. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Momii et al. U.S. Patent 6,052,665 (hereinafter, "Momii") in view of Murphy U.S. Patent 5,921,036, and further in view of Shimauchi et al. U.S. Patent 5,661,813 (hereinafter, "Shimauchi").

Regarding **claim 20**, Momii in view of Murphy teaches picked-up-sound reproducing apparatus as claimed in claim 13.

However, Momii in view of Murphy does not explicitly disclose a first echo canceler that removes, from a sound signal picked up by the first microphone, a sound component reproduced by the first-sound-field speaker; and a second echo canceler that removes, from a sound signal picked up by the second microphone, a sound component reproduced by the second-sound-field speaker.

Shimauchi teaches an apparatus for echo cancellation for a multi-channel teleconferencing system (Fig. 4; col. 5, lines 7-12) in which:



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a first echo canceler (22a2, Fig. 4) that removes, from a sound signal picked up by the first microphone, a sound component reproduced by the first-sound-field speaker (col. 5, lines 12-50; col. 19, lines 46-56); and

a second echo canceler (22b2, Fig. 4) that removes, from a sound signal picked up by the second microphone, a sound component reproduced by the second-sound-field speaker (col. 5, lines 12-50; col.19, lines 46-56).

It would have been obvious to one of ordinary skill in the art of communication at the time the invention was made to incorporate echo cancellation for a multi-channel teleconferencing system of Shimauchi with a picked-up-sound reproducing apparatus of Momii in view of Murphy for purpose of permitting cancellation of echoes, as suggested by Shimauchi in column 5, lines 10-12.

9. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Momii et al. U.S. Patent 6,052,665 (hereinafter, "Momii") in view of Murphy U.S. Patent 5,921,036, and further in view of Miyahira et al. (hereinafter, "Miyahira") U.S. Patent 5,321,848.

Regarding **claim 21**, Momii in view of Murphy teaches picked-up-sound reproducing apparatus as claimed in claim 6. Momii in view of Murphy further discloses each sound field having a speaker/microphone unit (76, Fig. 2, see Murphy). However, Momii in view of Murphy does not explicitly disclose wherein a sound-absorbing material is disposed around or in front of the microphone and speaker.

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Miyahira discloses a wireless communication system (10, Fig. 1) having absorbent materials (37, 44) surrounding microphone (34) and speaker (42), respectively (Fig. 1, col. 4, lines 33-52).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a communication of Miyahira teaching with a picked-up-sound reproducing apparatus of Momii, Murphy combination for purpose of being substantially free of unwanted feedback effects, as suggested by Miyahira in column 2, lines 59-60.

Allowable Subject Matter

10. Claim 17 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record fails to anticipate or render obvious a picked-up-sound reproducing apparatus in which each of the first sound field and the second sound field, a TV camera is provided generally in a center of the arrangement of the microphones and speakers of the individual processing channels, a sound-transmissive screen is disposed on a front surface of the arrangement of the microphones, speakers and TV camera, the screen has a window formed in a position thereof corresponding to a position of the TV camera, and a video projector is disposed in front of the screen above or below the screen, and

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wherein an image, representative of a scene in front of the screen, picked up by the TV camera in the first sound field is transmitted, via a transfer pathway, to the second sound field so that the image is projected onto the screen by the video projector in the second sound field, and an image, representative of a scene in front of the screen, picked up by the TV camera in the second sound field is transmitted, via the transfer pathway, to the first sound field so that the image is projected onto the screen by the video projector in the first sound field.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Con P. Tran, whose telephone number is (703) 305-2341. The examiner can normally be reached on M - F (8:30 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office at telephone number (703) 306-0377.

cpt November 1, 2004

XU MEI PRIMARY EXAMINER